

Missouri Department of Natural Resources

## Total Maximum Daily Load Information Sheet

### Maline Creek

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#### Water Body Segment at a Glance:

**County:** St. Louis  
**Nearby Cities:** St. Louis  
**Length of impaired segment:** 1.0 mile  
**Pollutant:** Chloride  
**Source:** Urban Nonpoint Sources  
**Water Body ID:** 1709



State Map Showing Location of Watershed

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**Scheduled for TMDL development:** 2011

#### Description of the Problem

##### Beneficial uses of Maline Creek

- Livestock and Wildlife Watering
- Protection of Warm Water Aquatic Life
- Protection of Human Health (Fish Consumption)

##### Use that is impaired

- Protection of Warm Water Aquatic Life

##### Standards that apply

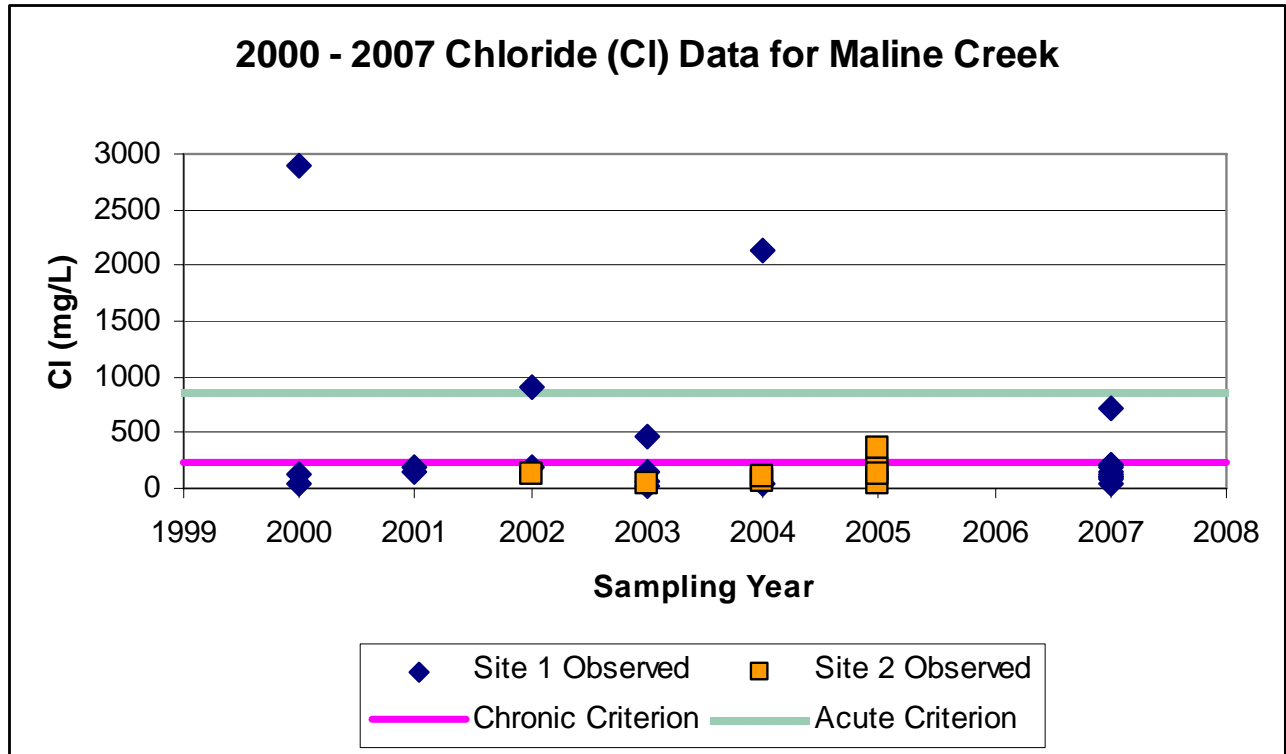
The criteria for chloride are found in Missouri's Water Quality Standards, 10 CSR 20-7.031 Table A. The chronic criterion is 230 milligrams per liter (mg/L or parts per million) and the acute criterion is 860 mg/L.

##### Background information and water quality data

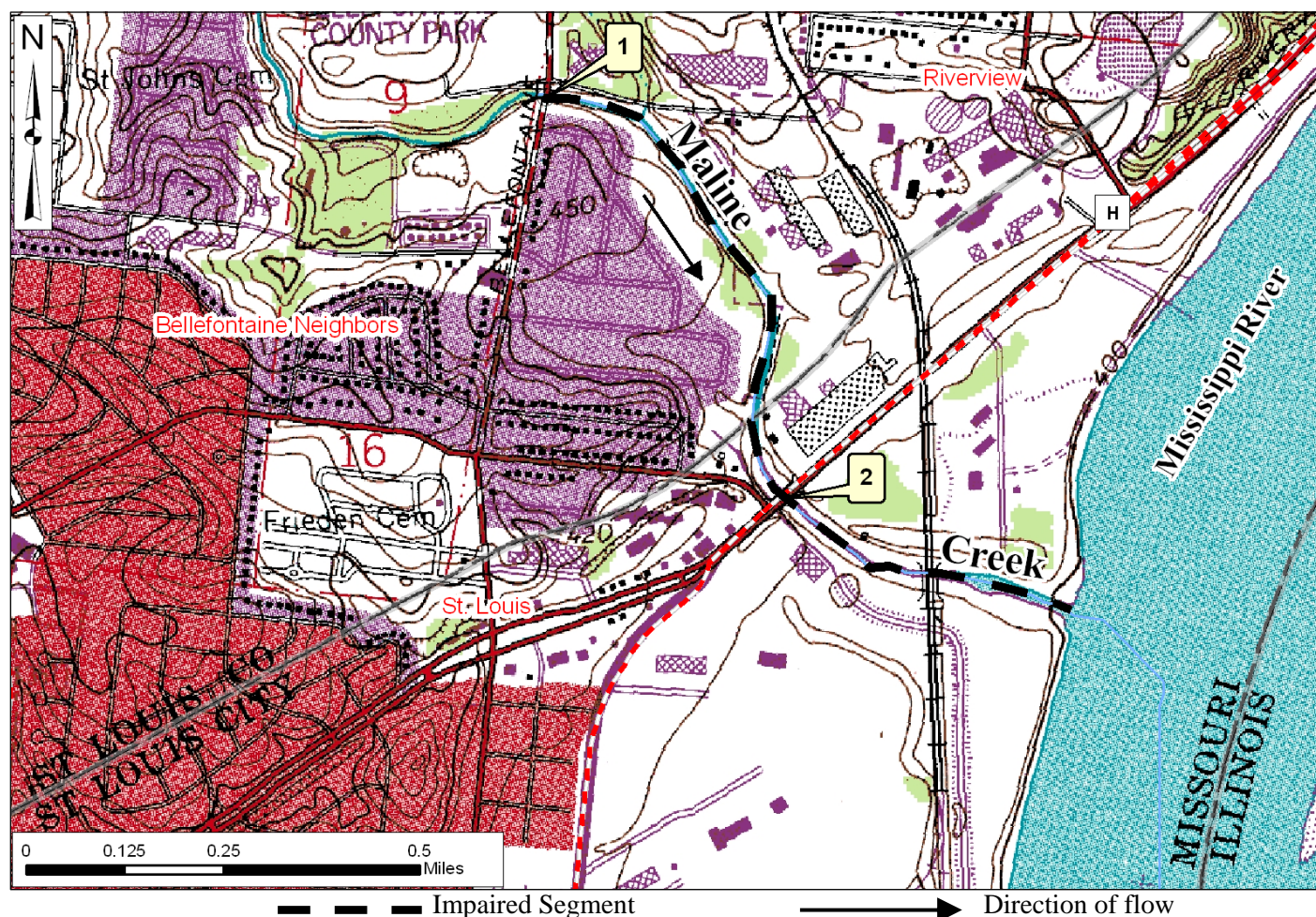
Maline Creek is a small tributary to the Mississippi River that lies on the northern edge of St. Louis, Missouri. The Listing Methodology stipulates that only one exceedence of the chloride criteria in the last three years of available data is necessary to constitute an impairment. Evidence for the impairment comes from data collected by the U.S. Geological Survey from 2000-2007 and by the St. Louis Metropolitan Sewer District from 2001-2005. There were three exceedences of the chronic<sup>1</sup> criterion in the last three years for which chloride data is available (2007, 2005 and 2004), with one of them exceeding the acute criterion (2004). No chloride data were collected in 2006.

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<sup>1</sup> Chronic toxicity = Conditions producing adverse effects on aquatic life or wildlife following long-term exposure but having no readily observable effect over a short time period. Acute toxicity = Conditions producing adverse or lethal effects on aquatic life following short-term exposure.



**Map Showing Maline Creek in St. Louis, Mo., and Sampling Sites**



Sample Sites	
1	Maline Creek at Bellefontaine Road
2	Maline Creek at Riverview Drive

**For more information call or write:**

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Water Protection Program

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